MULTI SCHEDULE RESIZER_(P9)

```
import clr
clr.AddReference('System.Drawing')
clr.AddReference('RevitAPI')
clr.AddReference('RevitServices')

from System.Drawing import Graphics, Font, GraphicsUnit, Bitmap, FontStyle
from Autodesk.Revit.DB import *
from RevitServices.Persistence import DocumentManager
from RevitServices.Transactions import TransactionManager

doc = DocumentManager.Instance.CurrentDBDocument

# Unwrap input (forces it to be a list, even if it's just one item)
input_raw = IN[0] if isinstance(IN[0], list) else [IN[0]]
input_elements = UnwrapElement(input_raw)

font_name = str(IN[1])
font_size_mm = IN[2]
font_size_pt = font_size_mm * 2.83465

# Fetch the custom padding multiplier from IN[3]
try:
    padding_multiplier = float(IN[3])
except:
    padding_multiplier = 1.25

# Setup Graphics Engine
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```
g = Graphics.FromImage(Bitmap(1, 1))
g.PageUnit = GraphicsUnit.Point

standard_font = Font(font_name, font_size_pt)
header_font = Font(font_name, font_size_pt, FontStyle.Bold)

# Start the transaction ONCE for all schedules
TransactionManager.Instance.EnsureInTransaction(doc)

# List to store our success/error messages for each schedule
output_messages = []

# THE FIX: Loop through EVERY selected element
for input_el in input_elements:
    if isinstance(input_el, ScheduleSheetInstance):
        view_schedule = doc.GetElement(input_el.ScheduleId)
        definition = view_schedule.Definition

        table_data = view_schedule.GetTableData()
        section_data = table_data.GetSectionData(SectionType.Body)

        # Filter out hidden columns
        field_order = definition.GetFieldOrder()
        visible_fields = []
        for f_id in field_order:
            field = definition.GetField(f_id)
            if not field.IsHidden:
                visible_fields.append(field)
```

```
    for c in range(section_data.NumberOfColumns):
        max_w = 0

        # 1. Measure Header Text
        if c < len(visible_fields):
            header_text = visible_fields[c].ColumnHeading
            if header_text:
                clean_header = str(header_text).replace('\n', ' ').replace('\r', ' ') + "    "
                w = g.MeasureString(clean_header, header_font).Width
                if w > max_w: max_w = w

        # 2. Measure Body Text
        for r in range(section_data.NumberOfRows):
            cell_text = view_schedule.GetCellText(SectionType.Body, r, c)
            if cell_text:
                clean_cell = str(cell_text).replace('\n', ' ').replace('\r', ' ') + "    "
                w = g.MeasureString(clean_cell, standard_font).Width
                if w > max_w: max_w = w

        # 3. Apply the Custom Multiplier
        final_width = (max_w / 864.0) * padding_multiplier + 0.05

        # Apply the final width
        if c < len(visible_fields):
            visible_fields[c].GridColumnWidth = final_width

    output_messages.append("Success: Resized '" + view_schedule.Name + "'")
else:
    output_messages.append("Skipped: Item is not a Schedule on a Sheet.")
```

```
# Force Revit to update graphics for everything
doc.Regenerate()
TransactionManager.Instance.TransactionTaskDone()

# Output the list of results
OUT = output_messages
```